

PMComanchePeakPEm Resource

From: Monarque, Stephen
Sent: Sunday, July 12, 2009 8:22 PM
To: cp34-rai-luminant@mnes-us.com; Diane Yeager; Donald.Woodlan@luminant.com; Eric.Evans@luminant.com; John.Only@luminant.com; joseph tapia; Kazuya Hayashi; Matthew.Weeks@luminant.com; MNES RAI mailbox; Russ Bywater
Cc: ComanchePeakCOL Resource; Ward, William
Subject: Comanche Peak RCOL RAI 12 on Section 3.5.1.3
Attachments: RAI 2664 (RAI 12).doc

The NRC staff has identified that additional information is needed to continue its review of the combined license application. The staff's request for additional information (RAI) is contained in the attachment. Within five calendar days of the date of this letter, please indicate if you wish to have a conference call.

The response to this RAI is due within 42 calendar days of July 12, 2009.

Note: If changes are needed to the safety analysis report, the NRC staff requests that the RAI response include the proposed wording changes.

thanks,

Stephen Monarque
U. S. Nuclear Regulatory Commission
NRO/DNRL/NMIP
301-415-1544

Hearing Identifier: ComanchePeak_COL_Public
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Mail Envelope Properties (Stephen.Monarque@nrc.gov20090712202200)

Subject: Comanche Peak RCOL RAI 12 on Section 3.5.1.3
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From: Monarque, Stephen

Created By: Stephen.Monarque@nrc.gov

Recipients:

"ComanchePeakCOL Resource" <ComanchePeakCOL.Resource@nrc.gov>

Tracking Status: None

"Ward, William" <William.Ward@nrc.gov>

Tracking Status: None

"cp34-rai-luminant@mnes-us.com" <cp34-rai-luminant@mnes-us.com>

Tracking Status: None

"Diane Yeager" <diane_yeager@mnes-us.com>

Tracking Status: None

"Donald.Woodlan@luminant.com" <Donald.Woodlan@luminant.com>

Tracking Status: None

"Eric.Evans@luminant.com" <Eric.Evans@luminant.com>

Tracking Status: None

"John.Only@luminant.com" <John.Only@luminant.com>

Tracking Status: None

"joseph tapia" <joseph_tapia@mnes-us.com>

Tracking Status: None

"Kazuya Hayashi" <kazuya_hayashi@mnes-us.com>

Tracking Status: None

"Matthew.Weeks@luminant.com" <Matthew.Weeks@luminant.com>

Tracking Status: None

"MNES RAI mailbox" <cp34-rai@mnes-us.com>

Tracking Status: None

"Russ Bywater" <russell_bywater@mnes-us.com>

Tracking Status: None

Post Office:

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RAI 2664 (RAI 12).doc	30202	

Options

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Request for Additional Information (RAI) No. 2664

RAI # 12

7/12/2009

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 03.05.01.03 - Turbine Missiles
Application Section: 3.5.1.3

QUESTIONS for Component Integrity, Performance, and Testing Branch 1 (AP1000/EPR Projects)
(CIB1)

03.05.01.03-1

Comanche Peak (CP) Combined License (COL) Item CP COL 3.5(2) in the Comanche Peak, Units 3 and 4 COL, Section 3.5.1.3.2, provides information that states the inspection of the turbine rotor is based on the probability ($P_1 < 1 \times 10^{-5}$ per year) of generating a missile from the US-APWR turbine generator as calculated in the applicable bounding turbine missile analysis report, Mitsubishi Report MUAP-07028, "Probability of Missile Generation from Low Pressure Turbines." This Mitsubishi report is also referenced in the US-APWR DCD, Revision 1, Sections 3.5.1.3 and 10.2.3. However, the NRC staff notes that US-APWR DCD, Section 3.5.1.3 states that failure of the overspeed protection system can produce missiles, while Section 10.2.3 references Mitsubishi Report MUAP-07029, "Probabilistic Evaluation of Turbine Valve Test Frequency," for the analysis of turbine missile generation probability due to the failure of the overspeed protection system. This analysis is used to determine the turbine valve test frequency in order to minimize turbine missiles due to destructive overspeed events caused by the failure of overspeed protection system. Therefore, the applicant is requested to include in the FSAR, that the Mitsubishi Report MUAP-07029, "Probabilistic Evaluation of Turbine Valve Test Frequency," will be used to establish the turbine valve test intervals to maintain $P_1 < 1 \times 10^{-5}$ per year to ensure that the limits as outlined in RG 1.115, "Protection Against Low-Trajectory Turbine Missiles" and SRP Section 3.5.1.3 "Turbine Missiles" are maintained. In addition, the applicant should include in the FSAR the valve test frequency that will be used in order to maintain $P_1 < 1 \times 10^{-5}$ per year for the unfavorably oriented turbines for Comanche Peak, Units 3 and 4.